

- 1 -

piece 1, NC_000913, cspH_cspG-, config: linear, direction: -, begin: 1050713, end: 10503799



_000913.cspG p10 1.2 bits

$\mu\mu$ p35 5.7 bits

p10 3.6 bits

t
ca
t

10 1.2 bits

{-----} p35-(26)-p10 1050685 Gap 3.7 bits
|-----| p35-p10 1050685 total 5.6 bits

p35 4.8 bits

```
{ } p35-(23)-p10 1050671 Gap 1.4 bit  
| p35-p10 1050671 total 4.5 bits
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The diagram illustrates the transcription start sites for four genes: *sd*, *ir*, *cspH*, and *cspG*. The *sd* gene is transcribed in the opposite direction from the others. The *ir* gene is located between the *sd* and *cspH* genes. The *cspH* and *cspG* genes are transcribed in the same direction, with *cspH* preceding *cspG*. A dashed line indicates the direction of transcription.

The diagram illustrates the genetic organization of the *sd-ir-cspH_cspG* operon. It features two main promoters: *sd* (green) and *ir* (red). The *sd* promoter is located upstream of the *cspH* gene, which encodes a sigma factor. The *ir* promoter is located upstream of the *cspG* gene, which encodes a regulatory protein. A dashed line indicates the transcription start sites for both genes. The *cspH* gene is transcribed in the same direction as the *sd* promoter, while the *cspG* gene is transcribed in the opposite direction. The *cspH* gene contains a unique restriction site, indicated by a vertical line.

p35 3.1 bit

{-----} p35-(26)-p10 1050563 Gap 3.7 bits
-----| p35-p10 1050563 total 5.9 bits

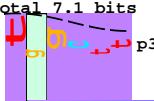
[###> orf 27 codons

[####] orf_36 codons

{ p35-(25)-p10 1050513 Gap 4.0 bits
p35-p10 1050513 total 4.8 bits }

... -----} p35-(23)-p10 1050466 Gap 1.4 bits

... -----| p35-p10 1050466 total 7.1 bits



p35 3.2 bits

{-----} p35-(22)-p10 1050433 Gap 2.3 bits

|-----| p35-p10 1050433 total 6.8 bits

5' * a a a t g a c a g g 3'

- lys - met - thr -

- lys - - -

... NC_000913.cspH

... 0 to 0 p10 7.6 bits

... } p35-(26)-p10 1050389 Gap 3.7 bits

... | p35-p10 1050389 total 8.2 bits

... p10

{-----} ... p35-(26)-p10 1050389 Gap

|-----| ... p35-p10 1050389 total 8.2 bits